

Fig 1

PINC Layer	Functionality
Application	- This is the actual application, and provides the services that are directly available to system users. e.g., true distributed control network application.
Smart Network	- This is the interface between complex network applications and the underlying physical network. It provides network services for applications.
Physical	- Underlying physical network.

PINC LAYER

Fig 2

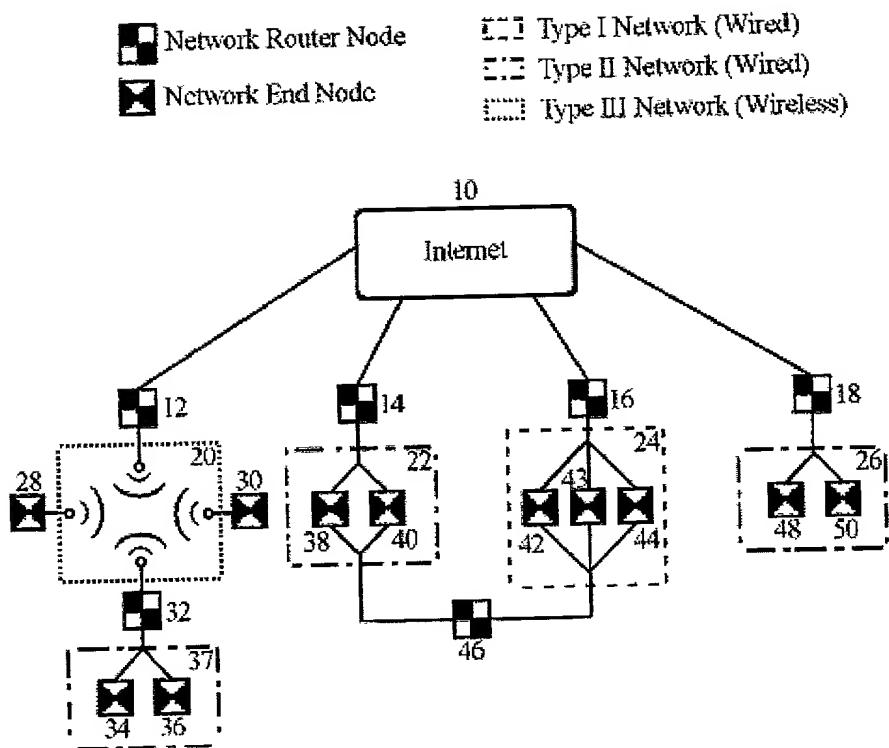


Fig 3

PINC Layer	PINC Sublayer	Functionality
Application	Application	- Complex network applications.
	Encryption	<ul style="list-style-type: none"> - Data encryption: public- and secret-key algorithms. - Authentication.
Smart Network	Packet Transport	<ul style="list-style-type: none"> - Packet transport services, connection-oriented and connectionless.
	Network Routing	<ul style="list-style-type: none"> - Computing optimal network paths. - Network load balancing. - Network Quality of Service (QoS)
Physical	Physical Transmission	<ul style="list-style-type: none"> - Division of frames into bit stream and vice versa. - Managing damaged, duplicate and lost frames
	Physical Medium	<ul style="list-style-type: none"> - Bit Timing voltages. - Physical Network Access